



Generell informasjon

Brønnbane navn	34/10-24
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	GULLFAKS
Funn	34/10-1 Gullfaks
Brønn navn	34/10-24
Seismisk lokalisering	ST 8488 2111 SP. 500
Utvinningstillatelse	050
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	471-L
Boreinnretning	DEEPSEA BERGEN
Boredager	37
Borestart	30.06.1985
Boreslutt	05.08.1985
Frigitt dato	05.08.1987
Publiseringsdato	21.12.2012
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	PLIOCENE
1. nivå med hydrokarboner, formasjon.	NORDLAND GP
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	134.0
Totalt målt dybde (MD) [m RKB]	600.0
Totalt vertikalt dybde (TVD) [m RKB]	600.0
Maks inklinasjon [°]	4
Temperatur ved bunn av brønnbanen [°C]	29
Eldste penetrerte alder	PLIOCENE
Eldste penetrerte formasjon	NORDLAND GP
Geodetisk datum	ED50
NS grader	61° 10' 32.65" N



ØV grader	2° 11' 28.1" E
NS UTM [m]	6782792.13
ØV UTM [m]	456492.55
UTM sone	31
NPDID for brønnbanen	483

Brønnhistorie

General

Well 34/10-24 was drilled to test possible shallow gas accumulation in sandstones at the location for the Gullfaks A platform. The targets were several sand layers of Pliocene age between 313 m and 600 m. Gas had been indicated on seismic anomalies and logs from other wells in the same field.

Operations and results

Well 34/10-22 was spudded with the semi-submersible installation Deepsea Bergen on 28 June 1985 and drilled to TD at 600 m in Pliocene sediments in the Nordland Group. No significant problem was encountered in the operations. The well was drilled with water based mud.

Top Pliocene was encountered at 285 m. The well encountered sand layers at 334.5 to 337.5 m, 346 to 347 m, and at 436 to 441 m. The sand at 334.5 to 337.5 m was gas bearing. According to previous log correlations, the well should have run into rocks of Miocene age. But biostratigraphical investigations proved only fauna of Pleistocene and Pliocene, age.

No cores were cut and no wire line fluid samples were taken. Cuttings samples were collected every 5 m from 230 m to TD. A full set of conventional logs were run. Maximum bottom hole temperature on wire line, measured 4 hours after circulation was 29.2 deg C.

The well was permanently abandoned on 5 August 1985.

Testing

One DST test was performed in the interval 334.5 to 336 m in order to bleed of the gas down to less than hydrostatic pressure. The sand was acid treated and gravel packed and over a ca one week period the well flowed 56 -71 Sm³ gas/day through two parallel chokes of diameters 128/64" and 82/64". Total accumulated production was ca 400000 Sm³ gas. The gas was 97.88% methane; the rest was mainly nitrogen (1.85%) and carbon-dioxide (0.18%). The gas gravity was 0.559 (air = 1). The initial reservoir pressure was estimated to be between 33.2 and 33.7 bar. A minor pressure reduction was registered in the reservoir, but it could not be concluded that the aim of the test was achieved. This indicated that the gas bearing interval was relatively widely distributed, and probably water driven.

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Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
230.00	600.00

Borekaks tilgjengelig for prøvetaking?	NO
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
157	NORDLAND GP

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
483_GCH_1	pdf	0.06

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
483_01_WDSS_General_Information	pdf	0.25

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
483_34_10_24_Completion_log	pdf	0.36
483_34_10_24_Completion_report	pdf	9.34

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	335	336	32.5





Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0		70000		0.559	

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
4ARM CAL GR	309	599
CBL VDL GR	152	349
CDL CNL CAL GR	309	599
DIFL ACL MSFL GR	309	599
DLL MSFL GR	309	596

Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm3]	Type formasjonstest
CONDUCTOR	30	221.0	36	221.5	0.00	LOT
SURF.COND.	20	310.0	26	315.0	1.30	LOT
INTERM.	9 5/8	587.0	12 1/4	600.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
220	1.05	51.0	12.0	WATER BASED	03.07.1985
310	1.10	85.0	13.0	WATER BASED	09.07.1985
315	1.07	52.0	13.0	WATER BASED	03.07.1985
379	1.10	63.0	12.0	WATER BASED	09.07.1985
600	1.11	62.0	11.0	WATER BASED	09.07.1985